samuel bozek

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summary

Recent graduate of General Assembly's Data Science Immersive. Initial exposure to working with data was during my undergraduate work in Analytical Chemist. Interests in Environmental Chemistry, Data Analysis, and Art Conservation. Am excited to apply data science to help towards determining clear, actionable routes to foster business opportunities.

employment

General Assembly
Data Science Immersive Student — Apr 2016 to Jul 2016

Created an algorithm using a convolution neural network that classifies works of art by whether or not they were done by Monet with 85% accuracy.
Expanded on the classifier to create a modified network that applied Monet's style to user input images.

MadeSolid, Inc — Emeryville, CA
Lab Manager & Product Chemist — Apr 2015 to Mar 2016

Oversaw outsourcing of all production to contract manufacturer. Increased resin production tenfold.
Reorganized lab space for optimal work flow and safety focus.
Optimized testing metrics to be focused on testing materials from the contract manufacturer.
Successfully sintered nanoparticles of metal as part of NSF grant #1448788.

Emeryville, CA
Product Chemist — Apr 2014 to Mar 2015

Lead designer of CastSolid, a 3D printing resin for use in investment casting.
Reformulated specific materials to match with customer requests.
Created testing metrics for fast analysis of all materials, improved production approval speed from eight hours to one.

Mankiewicz — Hamburg, Germany
Farbmetrik Praktikant (Colorimetry Intern) — May 2012 to Aug 2012

Improved a UV/Vis and Infrared database used to determine correction values for paint mixtures.
Performed final color and property proof of antimicrobial paint to be used in the washrooms aboard all 787 Dreamliner aircraft.

Lawrence Berkeley National Laboratory — Berkeley, CA
Student Researcher — Jun 2008 to Aug 2008

Programmed an input and output device using LabView to manipulate manifolds along high-energy beam pathways at the Advanced Light Source, a third-generation synchrotron.

Berkeley, CA
Student Researcher — Jun 2007 to Aug 2007

Created program to optimize oscillation of electron beam through quantifying effect of electron undulator on the beam. Allowed for precise energy radiation values to be used in experiments in atomic and molecular physics on soft x-ray beamline.

education

General Assembly
2016

A 12 week course that prepares professionals for roles in Data Analytics and Data Science.

Queen's University
B.Sc.H. Analytical Chemistry 2013

Minor German 2013

Awarded Chancellor's Scholarship on entry.

Albert-Ludwigs-Universität Freiburg im Breisgau
2011

Study Abroad with Ontario-Baden-Württemberg Program. Studied German Language and Literature and Art History.

California State Summer School for Mathematics and Science
2005

Particle and Astrophysics Option.
Replicated J.J. Thompson's Electron Mass to Charge Ratio Experiment.

skills

SKILLS

Python
Data Analysis
Data Cleaning
Git
Data Visualization
Natural Language Processing
SQL
Machine Learning
Public Speaking
AWS Cloud Services